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In the Claims

Please cancel claims 1-7.

Please add the following claims 21-41 as follows:

21. (New) A latch assembly for a self-cleaning oven, comprising:

a support;

a motor supported by said support;

a cam driven by said motor;

a latch mechanism driven by said motor; and

a plurality of switches supported by said support,

wherein movement of said cam causes actuation of at least one of said plurality of switches.

22. (New) The latch assembly of claim 21, further comprising an intermediate cam structure mechanically interposed between said cam and said plurality of switches.

23. (New) The latch assembly of claim 22, wherein:

movement of said cam causes movement of said intermediate cam structure, and

movement of said intermediate cam structure causes actuation of said at least one of said plurality of switches.

24. (New) The latch assembly of claim 22, wherein said intermediate cam structure includes a cam follower which is caused to move in response to movement of said cam.

25. (New) The latch assembly of claim 24, wherein said cam follower includes:

a cam plate having a plurality of tracks, and

a plurality of switch actuators respectively disposed within said plurality of tracks.

26. (New) The latch assembly of claim 24, wherein:

said cam follower includes a cam plate having an opening defined therein, and

said cam extends through said opening.

27. (New) The latch assembly of claim 25, wherein said plurality of switch actuators are respectively movably settable along said plurality of tracks.

28. (New) The latch assembly of claim 21, wherein:

said plurality of switches includes an upper set of switch arms and a lower set of switch arms, and

movement of said cam causes at least one upper arm of said upper set of switch arms and a respective at least one lower arm of said lower set of switch arms to contact each other.

29. (New) The latch assembly of claim 28, wherein:

said upper set of switch arms includes a plurality of upper terminals aligned in a first row,

said lower set of switch arms includes a plurality of lower terminals aligned in a second row, and

said second row is positioned below said first row.

30. (New) The latch assembly of claim 21, wherein:

said support includes a housing having an opening defined therein,

said latch mechanism is positioned in said housing, and

said latch mechanism includes a latch arm that extends through said opening defined in said housing.

31. (New) A latch assembly for a self-cleaning oven, comprising:

a latch housing;

a motor supported by said latch housing;

a cam driven by said motor;

a latch mechanism driven by said motor, said latch mechanism being located within said latch housing; and

a plurality of switches supported by said latch housing, wherein (i) said plurality of switches includes an upper set of switch arms and a lower set of switch arms, and (ii) movement of said cam causes one of said upper set of switch arms and one of said lower set of switch arms to contact each other.

32. (New) The latch assembly of claim 31, wherein:

said upper set of switch arms includes a plurality of upper terminals aligned in a first row,

said lower set of switch arms includes a plurality of lower terminals aligned in a second row, and

said second row is positioned below said first row.

33. (New) The latch assembly of claim 31, further comprising an intermediate cam structure mechanically interposed between said cam and said plurality of switches.

34. (New) The latch assembly of claim 31, wherein:

movement of said cam causes movement of said intermediate cam structure, and

movement of said intermediate cam structure causes actuation of said at least one of said plurality of switches.

35. (New) The latch assembly of claim 32, wherein said intermediate cam structure includes a cam follower which is caused to move in response to movement of said cam.

36. (New) The latch assembly of claim 35, wherein said cam follower includes:

a cam plate having a plurality of tracks, and

a plurality of switch actuators respectively disposed within said plurality of tracks.

37. (New) The latch assembly of claim 35, wherein:

said cam follower includes a cam plate having an opening defined therein, and

said cam extends through said opening.

38. (New) The latch assembly of claim 36, wherein said plurality of switch actuators are respectively movably settable along said plurality of tracks.

39. (New) A self-cleaning oven, comprising:

an oven frame;

a latch housing secured to said oven frame;

a motor supported by said latch housing;

a cam driven by said motor;

a latch mechanism driven by said motor, said latch mechanism being located within said latch housing; and

a plurality of switches supported by said latch housing, wherein movement of said cam causes actuation of at least one of said plurality of switches.

40. (New) The latch assembly of claim 39, wherein:

said plurality of switches includes an upper set of switch arms and a lower set of switch arms, and

movement of said cam causes at least one upper arm of said upper set of switch arms and a respective at least one lower arm of said lower set of switch arms to contact each other.

41. (New) The latch assembly of claim 39, further comprising a cam follower mechanically interposed between said cam and said plurality of switches, wherein said cam follower includes (i) a cam plate having a plurality of tracks, and (ii) a plurality of switch actuators respectively disposed within said plurality of tracks.